

OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

Edited by

FRANCIS HEMMING, C.M.G., C.B.E.

Secretary to the Commission

VOLUME 1. SECTION D. Part D.18. Pp. 365—388

DIRECTION 57

Addition to the *Official List of Specific Names in Zoology*

- (a) of the specific names of forty-seven species belonging to the Classes Cyclostomata, Pisces, Amphibia and Reptilia, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 and
(b) of the specific name of one species of the Class Amphibia which is currently treated as a senior subjective synonym of the name of such a species

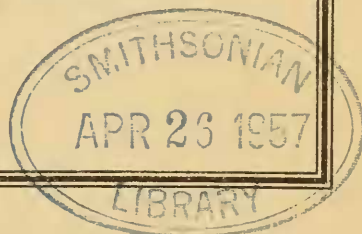
LONDON :

Printed by Order of the International Trust for
Zoological Nomenclature
and

Sold on behalf of the International Commission on Zoological
Nomenclature by the International Trust at its Publications Office
41, Queen's Gate, London, S.W.7
1956

Price Sixteen Shillings

(All rights reserved)



INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 57

A. The Officers of the Commission

Honorary Life President : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts, England*)

President : Professor James Chester BRADLEY (*Cornell University, Ithaca, N. Y., U.S.A.*)
(12th August 1953)

Vice-President : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

Secretary : Mr. Francis HEMMING (*London, England*) (27th July 1948)

B. The Members of the Commission

(Arranged in order of precedence by reference to date of election or of most recent re-election,
as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th
July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw,
Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt
a. M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin,
Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N. Y., U.S.A.*) (12th August
1953) (*President*)

Professor Harold E. VOKES (*Johns Hopkins University, Baltimore, Maryland, U.S.A.*)
(12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N. Y.,
U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)
(12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation,
Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*)
(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November
1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge,
Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria," Genova, Italy*)
(16th December 1954)

DIRECTION 57

ADDITION TO THE "OFFICIAL LIST OF SPECIFIC NAMES IN ZOOLOGY" (a) OF THE SPECIFIC NAMES OF FORTY-SEVEN SPECIES BELONGING TO THE CLASSES CYCLOSTOMATA, PISCES, AMPHIBIA AND REPTILIA, EACH OF WHICH IS THE TYPE SPECIES OF A GENUS, THE NAME OF WHICH WAS PLACED ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" IN THE PERIOD UP TO THE END OF 1936 AND (b) OF THE SPECIFIC NAME OF ONE SPECIES OF THE CLASS AMPHIBIA WHICH IS CURRENTLY TREATED AS A SENIOR SUBJECTIVE SYNONYM OF THE NAME OF SUCH A SPECIES

RULING :—(1) The under-mentioned specific name of a species belonging to the Class Cyclostomata, which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by the Ruling given in *Opinion 75*, is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1063 : *glutinosa* Linnaeus, 1758, as published in the combination *Myxine glutinosa* (specific name of type species of *Myxine* Linnaeus, 1758).

(2) The under-mentioned specific names of species belonging to the Class Pisces, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by the Rulings given in the *Opinions* severally cited below, are hereby placed on the *Official*

JAN - 8 1957

List of Specific Names in Zoology with the Name Numbers specified in each case against the names in question :—

(a) *Specific Names of type species of genera, the names of which were placed on the “ Official List ” by the Ruling given in “ Opinion ” 75 :—*

- (i) *tobianus* Linnaeus, 1758, as published in the combination *Ammodytes tobianus* (specific name of type species of *Ammodytes* Linnaeus, 1758) (Name No. 1064) ;
- (ii) *lupus* Linnaeus, 1758, as published in the combination *Anarhichas lupus* (specific name of type species of *Anarhichas* Linnaeus, 1758) (Name No. 1065) ;
- (iii) *hepsetus* Linnaeus, 1758, as published in the combination *Atherina hepsetus* (specific name of type species of *Atherina* Linnaeus, 1758) (Name No. 1066) ;
- (iv) *tabacaria* Linnaeus, 1758, as published in the combination *Fistularia tabacaria* (specific name of type species of *Fistularia* Linnaeus, 1758) (Name No. 1067) ;
- (v) *cephalus* Linnaeus, 1758, as published in the combination *Mugil cephalus* (specific name of type species of *Mugil* Linnaeus, 1758) (Name No. 1068) ;
- (vi) *draco* Linnaeus, 1758, as published in the combination *Trachinus draco* (specific name of type species of *Trachinus* Linnaeus, 1758) (Name No. 1069) ;
- (vii) *scaber* Linnaeus, 1758, as published in the combination *Uranoscopus scaber* (specific name of type species of *Uranoscopus* Linnaeus, 1758) (Name No. 1070) ;

- (viii) *gladius* Linnaeus, 1758, as published in the combination *Xiphias gladius* Linnaeus, 1758 (specific name of type species of *Xiphias* Linnaeus, 1758) (Name No. 1071) ;
- (ix) *sturio* Linnaeus, 1758, as published in the combination *Acipenser sturio* (specific name of type species of *Acipenser* Linnaeus, 1758) (Name No. 1072) ;
- (x) *lyra* Linnaeus, 1758, as published in the combination *Callionymus lyra* (specific name of type species of *Callionymus* Linnaeus, 1758) (Name No. 1073) ;
- (xi) *monstrosa* Linnaeus, 1758, as published in the combination *Chimaera monstrosa* (specific name of type species of *Chimaera* Linnaeus, 1758) (Name No. 1074) ;
- (xii) *harengus* Linnaeus, 1758, as published in the combination *Clupea harengus* (specific name of type species of *Clupea* Linnaeus, 1758) (Name No. 1075) ;
- (xiii) *hippurus* Linnaeus, 1758, as published in the combination *Coryphaena hippurus* (specific name of type species of *Coryphaena* Linnaeus, 1758) (Name No. 1076) ;
- (xiv) *lumpus* Linnaeus, 1758, as published in the combination *Cyclopterus lumpus* (specific name of type species of *Cyclopterus* Linnaeus, 1758) (Name No. 1077) ;
- (xv) *carpio* Linnaeus, 1758, as published in the combination *Cyprinus carpio* (specific name of type species of *Cyprinus* Linnaeus, 1758) (Name No. 1078) ;
- (xvi) *morhua* Linnaeus, 1758, as published in the combination *Gadus morhua* (specific

- name of type species of *Gadus* Linnaeus, 1758) (Name No. 1079) ;
- (xvii) *aculeatus* Linnaeus, 1758, as published in the combination *Gasterosteus aculeatus* (specific name of type species of *Gasterosteus* Linnaeus, 1758) (Name No. 1080) ;
- (xviii) *niger* Linnaeus, 1758, as published in the combination *Gobius niger* (specific name of type species of *Gobius* Linnaeus, 1758) (Name No. 1081) ;
- (xix) *piscatorius* Linnaeus, 1758, as published in the combination *Lophius piscatorius* (specific name of type species of *Lophius* Linnaeus, 1758) (Name No. 1082) ;
- (xx) *cyprinoides* Linnaeus, 1758, as published in the combination *Mormyrus cyprinoides* (specific name of type species of *Mormyrus* Linnaeus, 1758) (Name No. 1083) ;
- (xxi) *barbatus* Linnaeus, 1758, as published in the combination *Mullus barbatus* (specific name of type species of *Mullus* Linnaeus, 1758) (Name No. 1084) ;
- (xxii) *fluviatilis* Linnaeus, 1758, as published in the combination *Perca fluviatilis* (specific name of type species of *Perca* Linnaeus, 1758) (Name No. 1085) ;
- (xxiii) *salar* Linnaeus, 1758, as published in the combination *Salmo salar* (specific name of type species of *Salmo* Linnaeus, 1758) (Name No. 1086) ;
- (xxiv) *scombrus* Linnaeus, 1758, as published in the combination *Scomber scombrus* (specific name of type species of

Scomber Linnaeus, 1758) (Name No. 1087) ;

(xxv) *porcus* Linnaeus, 1758, as published in the combination *Scorpaena porcus* (specific name of type species of *Scorpaena* Linnaeus, 1758) (Name No. 1088) ;

(xxvi) *glanis* Linnaeus, 1758, as published in the combination *Silurus glanis* (specific name of type species of *Silurus* Linnaeus, 1758) (Name No. 1089) ;

(xxvii) *acus* Linnaeus, 1758, as published in the combination *Syngnathus acus* (specific name of type species of *Syngnathus* Linnaeus, 1758) (Name No. 1090) ;

(xxviii) *faber* Linnaeus, 1758, as published in the combination *Zeus faber* (specific name of type species of *Zeus* Linnaeus, 1758) (Name No. 1091) ;

(b) *Specific Names of type species of genera, the names of which were placed on the "Official List" by the Ruling given in "Opinion" 92 :—*

(i) *ocellaris* Linnaeus, 1758, as published in the combination *Blennius ocellaris* (specific name of type species of *Blennius* Linnaeus, 1758) (Name No. 1092) ;

(ii) *lucius* Linnaeus, 1758, as published in the combination *Esox lucius* (specific name of type species of *Esox* Linnaeus, 1758) (Name No. 1093) ;

(iii) *barbatus* Linnaeus, 1758, as published in the combination *Ophidion barbatus* (specific name of type species of *Ophidion* Linnaeus, 1758) (Name No. 1094) ;

(c) *Specific Names of type species of genera, the names of which were placed on the " Official List " by the Ruling given in " Opinion " 93 :—*

- (i) *lavaretus* Linnaeus, 1758, as published in the combination *Salmo lavaretus* (specific name of type species of *Coregonus* Linnaeus, 1758) (Name No. 1095) ;
- (ii) *pisonis* Gmelin (J.F.), [1789], as published in the combination *Gobius pisonis* (specific name of type species of *Eleotris* Schneider, 1801) (Name No. 1096) ;
- (iii) *marginalis* Bloch, 1793, as published in the combination *Epinephelus marginalis*, (specific name of type species of *Epinephelus* Bloch, 1793) (Name No. 1097) ;
- (iv) *reticularis* Bloch, 1795, as published in the combination *Gymnothorax reticularis* (specific name of type species of *Gymnothorax* Bloch, 1795) (Name No. 1098) ;
- (v) *electricus* Gmelin (J.F.), [1789], as published in the combination *Silurus electricus* (specific name of type species of *Malapterurus* Lacépède, 1803) (Name No. 1099) ;
- (vi) *mustelus* Linnaeus, 1758, as published in the combination *Squalus mustelus* (specific name of type species of *Mustelus* Linck, 1790) (Name No. 1100) ;
- (vii) *paradiseus* Linnaeus, 1758, as published in the combination *Polynemus paradiseus* (specific name of type species of *Polynemus* Linnaeus, 1758) (Name No. 1101) ;

- (viii) *cabrilla* Linnaeus, 1758, as published in the combination *Perca cabrilla* (specific name of type species of *Serranus* Cuvier, 1817) (Name No. 1102).

(3) The under-mentioned specific names of species belonging to the Class Amphibia, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by the Ruling given in *Opinion* 92, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *fuscus* Rafinesque, 1820, as published in the combination *Triturus fuscus* (specific name of type species of *Desmognathus* Baird, (1850)) (Name No. 1103) ;
- (b) *lacertina* Linnaeus, 1766, as published in the combination *Siren lacertina* (specific name of type species of *Siren* Linnaeus, 1766) (Name No. 1104).

(4) The under-mentioned specific names of species belonging to the Class Reptilia, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by the Rulings given in the *Opinions* severally cited below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers specified in each case against the names in question :—

- (a) *Specific Name of the type species of a genus, the name of which was placed on the “ Official List ” by the Ruling given in “ Opinion ” 75 :*

volans Linnaeus, 1758, as published in the combination *Draco volans* (specific name

of type species of *Draco* Linnaeus, 1758)
(Name No. 1105) ;

(b) *Specific Names of type species of genera, the names of which were placed on the " Official List " by the Ruling given in " Opinion " 92 :—*

- (i) *serpentina* Linnaeus, 1758, as published in the combination *Testudo serpentina* (specific name of type species of *Chelydra* Schweigger, 1812) (Name No. 1106) ;
- (ii) *horridus* Linnaeus, 1858, as published in the combination *Crotalus horridus* (specific name of type species of *Crotalus* Linnaeus, 1758) (Name No. 1107) ;
- (iii) *coriacea* Linnaeus, 1766, as published in the combination *Testudo coriacea* (specific name of type species of *Dermochelys* Blainville, 1816) (Name No. 1108) ;
- (iv) *agilis* Linnaeus, 1758, as published in the combination *Lacerta agilis* (specific name of type species of *Lacerta* Linnaeus, 1758) (Name No. 1109).

(5) The under-mentioned specific name which is currently regarded as a senior subjective synonym of the specific name of the type species of a genus belonging to the Class Amphibia, the name of which was placed on the *Official List of Generic Names in Zoology* in the *Opinion* cited against the name in question is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number specified below :—

alleganiensis Daudin, [1803], as published in the combination *Salamandra alleganiensis* (*Opinion* 92) (Name No. 1110).

I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* has been prepared under a General Directive issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, that the specific name of the species which are the type species of genera, the names of which had been placed on the *Official List of Generic Names in Zoology* prior to the opening of that Congress, should, if the oldest available names for the species concerned, be placed on the *Official List of Specific Names in Zoology* and that in other cases there should be placed on that *List* whatever is currently considered to be the oldest available names for the species concerned. The present which is the fourth in this series of *Directions*, is concerned with the names of the type species of genera belonging to the Classes Cyclostomata, Pisces, Amphibia and Reptilia, the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936. The total number of such generic names is forty-eight. Of these all are dealt with in the present *Direction* with the exception of the generic name *Calamaria* Boie, 1826, the consideration of which has, for the reasons explained in paragraph 4 of the present *Direction*, been postponed for further study. The proposals which formed the basis of the decisions taken by the Commission in the present case were submitted by the Secretary in the following paper on 25th April 1956 :—

Proposed addition to the “ Official List of Specific Names in Zoology ”
(a) of the specific names of forty-eight species belonging to the Classes Cyclostomata, Pisces, Amphibia and Reptilia, each of which is the type species of a genus, the name of which was placed on the “ Official List of Generic Names in Zoology ” in the period up to the end of 1936 and (b) of the specific name of one species of the Class Amphibia which is currently treated as a senior subjective synonym of the name of such a species

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The present paper contains the fourth instalment of proposals for giving effect to the General Directive issued to the International

Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, that in every case where the specific name of the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 is the oldest available name for the species concerned, that name shall be placed on the *Official List of Specific Names in Zoology* and that in other cases the specific name currently regarded as the oldest available subjective synonym of that name shall be similarly placed on that List.

2. The proposals now submitted relate to the names of the type species of genera belonging to the Classes Cyclostomata, Pisces, Amphibia and Reptilia, which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936. In all, sixty-two generic names are involved. The genera so named are distributed among the foregoing Classes as follows : Class Cyclostomata, one genus ; Class Pisces, 48 genera ; Class Amphibia, 3 genera ; Class Reptilia, 10 genera. Details regarding the position of the names belonging to each of these groups are given in the following paragraphs.

3. *Class Cyclostomata* : No difficulty arises in connection with the specific name of the type species of the only genus belonging to this Class, the name of which has been placed on the *Official List* (*Myxine* Linnaeus, 1758) and the specific name of that species should therefore now be placed on the *Official List*.

4. *Class Pisces* : In the case of one of the genera of the Class Pisces involved, the specific name of the type species has already been placed on the *Official List*. The generic name concerned is *Echeneis* Linnaeus, 1758, which was dealt with by the Commission in *Opinion* 242. In another case—relating to the reputed generic name *Osmerus* Linnaeus, 1758—proposals covering *inter alia* the proposed addition of the specific name of its type species to the *Official List* are already before the Commission in Application Z.N.(S.) 564 (Hemming, 1955, *Bull. zool. Nomencl.* **11** : 281—282). In two cases applications have been received from ichthyologists which will, it is hoped, be published in the *Bulletin of Zoological Nomenclature* at an early date. Three names are involved in these applications, namely (a) *Sciaena* Linnaeus, 1758 (Application Z.N.(S.) 850) ; (b) *Stolephorus* Lacépède, 1803, and *Teuthis* Linnaeus, 1766 (Application Z.N.(S.) 569). In these cases it is proposed that action regarding the addition to the *Official List* of the specific names of the type species of the genera concerned be deferred until decisions are taken on other outstanding matters concerned with these generic names. Finally, there are four generic names against which no objection has been raised by specialists but which, on the basis of the information so far collected by this Office, appear to call for action by the Commission before the entries in regard to them

made on the *Official List* in the period up to the end of 1936 can be regarded as correct. The problems involved in these cases are of two kinds. In one case the name in question, *Conger* Cuvier, 1817, appears to be a phantom ; in the three other cases (*Cottus* Linnaeus, 1758 ; *Diodon* Linnaeus, 1758 ; *Muraena* Linnaeus, 1758) it appears that the species currently accepted as the type species and adopted as such in the *Official List* is not the first of the originally included species to have been selected as the type species of the genus in question. Consultations are proceeding with representative ichthyologists in regard to these four names (on Commission File Z.N.(S.) 556) and it is proposed in these cases to defer for the present the submission of proposals for the addition to the *Official List* of the specific names of the species currently accepted as the type species of the genera concerned.

5. It will be seen from the particulars given above that the action required has already been taken in regard to the name of the type species of one of the genera involved, while in eight other cases it is considered that at the present moment it would be premature or otherwise undesirable to place on the *Official List* the specific name of the type species in question. In the case of the remaining thirty-nine generic names in the Class Pisces investigations carried out by this Office show (a) that the species accepted in the *Opinions* concerned as the type species of the genera involved are currently accepted as such by specialists, (b) that the species concerned have been validly designated or indicated as the type species of the genera in question and that where the determination of the type species has to be made under Rule (g) in Article 30 (type species by subsequent selection), the species have been validly selected to be the type species of the genera concerned, and (c) that the specific names of the nominal species which are the type species of the genera concerned are the oldest available names for the said species. In these circumstances it is now recommended that the thirty-nine specific names involved should be placed on the *Official List*.

6. *Class Amphibia* : The names of the three genera of the Class Amphibia which have been placed on the *Official List* are all available names and are currently accepted by specialists as the oldest such names for the genera concerned. In each case also the type species has been correctly determined under Article 30 of the *Règles*. In the case of two of the genera concerned (*Desmognathus* Baird, (1850) ; *Siren* Linnaeus, 1766) the specific name of the type species is the oldest available name for the species concerned and is currently accepted as such. These two specific names should therefore now be placed on the *Official List*. In the case of the third of the genera involved (*Cryptobranchus* Leuckart, 1821) the specific name of the type species (*gigantea*) is currently regarded as a junior subjective synonym of another name (*alleganiensis*). In this case it is the specific name which is the senior subjective synonym and not the specific name of the type

species which under the General Directive issued to the Commission by the International Congress of Zoology should now be placed on the *Official List*.

7. *Class Reptilia* : The specific name of the type species of one of the ten genera of the Class Reptilia which have to be considered has already been placed on the *Official List of Specific Names in Zoology*. The genus concerned is *Mabuya* Fitzinger, 1826, which was dealt with by the Commission in its *Opinion* 240. In the case of the name *Phrynosoma* Wiegmann, 1828, attention has been drawn by a specialist to the existence of certain names which appear to be senior synonyms (Application Z.N.(S.) 399) and it is not desirable that the specific name of the type species of this genus should be dealt with by the Commission until the more general issues raised can also be settled. In the case of a third name, *Eremias* Wiegmann, 1834, the selection as type species of the species accepted as such in the *Official List* and currently so accepted by specialists appears to have been anticipated by the selection of a different species. This question is now being investigated in conjunction with interested specialists (Z.N.(S.) 556) and it is not considered that any action is desirable until the present consultations have been concluded. In the case also of the name *Alligator* Cuvier, 1807, certain difficulties have been noted (Z.N.(S.) 551) and consultations are proceeding with specialists¹. In this case also the question of placing the specific name of the type species on the *Official List* must be left over until comprehensive proposals can be laid before the Commission.

8. No difficulty arises in connection with the remaining six generic names in the Class Reptilia. The names themselves are available names and are currently accepted by specialists as the oldest such names for the genera concerned ; the species currently accepted as the type species of these genera have been correctly determined as such under Article 30 of the *Règles*, and the specific names for those species are available names and are the oldest such names for the species in question. The specific names of the type species of these six genera should therefore now be placed on the *Official List*.

9. Summarising the conclusions set forth in the present paper, I recommend that the International Commission on Zoological Nomenclature should :—

(1) place on the *Official List of Specific Names in Zoology* the specific names specified below, each of which is the specific name of the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the close of 1936 :—

(a) the specific name of a species of the Class Cyclostomata cited in Section A of Annexe 1 attached hereto ;

¹ Proposals for dealing with this question have now been submitted to the International Commission (Hemming, 1956, *Bull. zool. Nomencl.* **12** : 163–175).

- (b) the thirty-nine specific names of species of the Class Pisces cited in Section B of Annexe 1 attached hereto ;
 - (c) the two specific names of species of the Class Amphibia cited in Section C of Annexe 1 attached hereto ;
 - (d) the six specific names of species of the Class Reptilia cited in Section D of Annexe 1 attached hereto ;
- (2) place on the *Official List of Specific Names in Zoology* the specific name of a species of the Class Amphibia (being a name currently regarded as a senior subjective synonym of the name of a species which is the type species of a genus the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the close of 1936) cited in Annexe 2 attached hereto.

ANNEXE 1

Proposed addition to the “ Official List of Specific Names in Zoology ” of forty-eight specific names of species belonging to the Classes Cyclostomata, Pisces, Amphibia and Reptilia, each of which is the specific name of the type species of a genus, the name of which was placed on the “ Official List of Generic Names in Zoology ” in the period up to the end of 1936

<i>Specific Name proposed to be placed on the “ Official List of Specific Names in Zoology ”</i>	<i>Combination in which name specified in Col. 1 was originally published</i>	<i>Name of genus of which species specified in Col. 1 is the type species</i>
(1)	(2)	(3)

Section A : Class Cyclostomata (one name)**“ Opinion ” 75**

<i>glutinosa</i> Linnaeus, 1758	<i>Myxine glutinosa</i>	<i>Myxine</i> Linnaeus, 1758
------------------------------------	-------------------------	---------------------------------

Section B : Class Pisces (thirty-nine names)**“ Opinion ” 75**

<i>tobianus</i> Linnaeus, 1758	<i>Ammodytes tobianus</i>	<i>Ammodytes</i> Linnaeus, 1758
<i>lupus</i> Linnaeus, 1758	<i>Anarhichas lupus</i>	<i>Anarhichas</i> Linnaeus, 1758
<i>hepsetus</i> Linnaeus, 1758	<i>Atherina hepsetus</i>	<i>Atherina</i> Linnaeus, 1758

<i>Specific name proposed to be placed on the " Official List of Specific Names in Zoology "</i>	<i>Combination in which name specified in Col. 1 was originally published</i>	<i>Name of genus of which species specified in Col. 1 is the type species</i>
(1)	(2)	(3)
<i>tabacaria</i> Linnaeus, 1758	<i>Fistularia tabacaria</i>	<i>Fistularia</i> Linnaeus, 1758
<i>cephalus</i> Linnaeus, 1758	<i>Mugil cephalus</i>	<i>Mugil</i> Linnaeus, 1758
<i>draco</i> Linnaeus, 1758.	<i>Trachinus draco</i>	<i>Trachinus</i> Linnaeus, 1758
<i>scaber</i> Linnaeus, 1758	<i>Uranoscopus scaber</i>	<i>Uranoscopus</i> Linnaeus, 1758
<i>gladius</i> Linnaeus, 1758	<i>Xiphias gladius</i>	<i>Xiphias</i> Linnaeus, 1758

“ Opinion ” 77

<i>sturio</i> Linnaeus, 1758	<i>Acipenser sturio</i>	<i>Acipenser</i> Linnaeus, 1758
<i>lyra</i> Linnaeus, 1758	<i>Callionymus lyra</i>	<i>Callionymus</i> Linnaeus, 1758
<i>monstrosa</i> Linnaeus, 1758	<i>Chimaera monstrosa</i>	<i>Chimaera</i> Linnaeus, 1758
<i>harengus</i> Linnaeus, 1758	<i>Clupea harengus</i>	<i>Clupea</i> Linnaeus, 1758
<i>hippurus</i> Linnaeus, 1758	<i>Coryphaena hippurus</i>	<i>Coryphaena</i> Linnaeus, 1758
<i>lumpus</i> Linnaeus, 1758	<i>Cyclopterus lumpus</i>	<i>Cyclopterus</i> Linnaeus, 1758
<i>carpio</i> Linnaeus, 1758	<i>Cyprinus carpio</i>	<i>Cyprinus</i> Linnaeus, 1758
<i>morhua</i> Linnaeus, 1758	<i>Gadus morhua</i>	<i>Gadus</i> Linnaeus, 1758
<i>aculeatus</i> Linnaeus, 1758	<i>Gasterosteus aculeatus</i>	<i>Gasterosteus</i> Linnaeus, 1758
<i>niger</i> Linnaeus, 1758	<i>Gobius niger</i>	<i>Gobius</i> Linnaeus, 1758
<i>piscatorius</i> Linnaeus, 1758	<i>Lophius piscatorius</i>	<i>Lophius</i> Linnaeus, 1758
<i>cyprinoides</i> Linnaeus, 1758	<i>Mormyrus cyprinoides</i>	<i>Mormyrus</i> Linnaeus, 1758
<i>barbatus</i> Linnaeus, 1758	<i>Mullus barbatus</i>	<i>Mullus</i> Linnaeus, 1758
<i>fluviatilis</i> Linnaeus, 1758	<i>Perca fluviatilis</i>	<i>Perca</i> Linnaeus, 1758
<i>salar</i> Linnaeus, 1758	<i>Salmo salar</i>	<i>Salmo</i> Linnaeus, 1758
<i>scombrus</i> Linnaeus, 1758	<i>Scomber scombrus</i>	<i>Scomber</i> Linnaeus, 1758

<i>Specific name proposed to be placed on the " Official List of Specific Names in Zoology "</i>	<i>Combination in which name specified in Col. 1 was originally published</i>	<i>Name of genus of which species specified in Col. 1 is the type species</i>
(1)	(2)	(3)
<i>porcus</i> Linnaeus, 1758	<i>Scorpaena porcus</i>	<i>Scorpaena</i> Linnaeus, 1758
<i>glanis</i> Linnaeus, 1758	<i>Silurus glanis</i>	<i>Silurus</i> Linnaeus, 1758
<i>acus</i> Linnaeus, 1758	<i>Syngnathus acus</i>	<i>Syngnathus</i> Linnaeus, 1758
<i>faber</i> Linnaeus, 1758	<i>Zeus faber</i>	<i>Zeus</i> Linnaeus, 1758

" Opinion " 92

<i>ocellaris</i> Linnaeus, 1758	<i>Blennius ocellaris</i>	<i>Blennius</i> Linnaeus, 1758
<i>lucius</i> Linnaeus, 1758	<i>Esox lucius</i>	<i>Esox</i> Linnaeus, 1758
<i>barbatum</i> Linnaeus, 1758	<i>Ophidion barbatum</i>	<i>Ophidion</i> Linnaeus, 1758

" Opinion " 93

<i>lavaretus</i> Linnaeus, 1758	<i>Salmo lavaretus</i>	<i>Coregonus</i> Linnaeus, 1758
<i>pisonis</i> Gmelin, [1789]	<i>Gobius pisonis</i>	<i>Eleotris</i> Schneider, 1801
<i>marginalis</i> Bloch, 1793	<i>Epinephelus marginalis</i>	<i>Epinephelus</i> Bloch, 1793
<i>reticularis</i> Bloch, 1795	<i>Gymnothorax reticularis</i>	<i>Gymnothorax</i> Bloch, 1795
<i>electricus</i> Gmelin, [1789]	<i>Silurus electricus</i>	<i>Malapterurus</i> Lacépède, 1803
<i>mustelus</i> Linnaeus, 1758	<i>Squalus mustelus</i>	<i>Mustelus</i> Linck, 1790
<i>paradiseus</i> Linnaeus, 1758	<i>Polynemus paradiseus</i>	<i>Polynemus</i> Linnaeus, 1758
<i>cabrilla</i> Linnaeus, 1758	<i>Perca cabrilla</i>	<i>Serranus</i> Cuvier, 1817

Section C : Class Amphibia (two names)**" Opinion " 92**

<i>fuscus</i> Rafinesque, 1820	<i>Triturus fuscus</i>	<i>Desmognathus</i> Baird, (1850)
<i>lacertina</i> Linnaeus, 1766	<i>Siren lacertina</i>	<i>Siren</i> Linnaeus, 1766

<i>Specific name proposed to be placed on the " Official List of Specific Names in Zoology "</i>	<i>Combination in which name specified in Col. 1 was originally published</i>	<i>Name of genus of which species specified in Col. 1 is the type species</i>
(1)	(2)	(3)

Section D : Class Reptilia (six names)

" Opinion " 75

<i>volans</i> Linnaeus, 1758	<i>Draco volans</i>	<i>Draco</i> Linnaeus, 1758
------------------------------	---------------------	-----------------------------

" Opinion " 92

<i>calamarius</i> Linnaeus, 1758	<i>Coluber calamarius</i>	<i>Calamaria</i> Boie, 1826
<i>serpentina</i> Linnaeus, 1758	<i>Testudo serpentina</i>	<i>Chelydra</i> Schweigger 1812
<i>horridus</i> Linnaeus, 1758	<i>Crotalus horridus</i>	<i>Crotalus</i> Linnaeus, 1758
<i>coriacea</i> Linnaeus, 1766	<i>Testudo coriacea</i>	<i>Dermochelys</i> Blainville, 1816
<i>agilis</i> Linnaeus, 1758	<i>Lacerta agilis</i>	<i>Lacerta</i> Linnaeus, 1758

ANNEXE 2

Proposed addition to the " Official List of Specific Names in Zoology " of the specific name of a species of the Class Amphibia which is currently treated as a senior subjective synonym of the name of a species which is the type species of a genus the name of which was placed on the " Official List of Generic Names in Zoology " in the period up to the close of 1936

<i>Specific name proposed to be placed on the " Official List of Specific Names in Zoology "</i>	<i>Remarks</i>
(1)	(2)
<i>alleganiensis</i> Daudin, [1803], as published in the combination <i>Salamandra alleganiensis</i> .	(not for inclusion in the entry to be made in the <i>Official List</i>) a senior subjective synonym of <i>gigantea</i> Barton, 1808, as pub- lished in the combination <i>Salamandra gigantea</i> , the specific name of the type species of <i>Cryptobranchus</i> Leuckart, 1821 (which was placed on the <i>Official</i> <i>List of Generic Names in Zoology</i> by the Ruling given in <i>Opinion</i> 92).

2. Registration of the present application : Upon the receipt of Mr. Hemming's paper the question of the addition to the *Official List of Specific Names in Zoology* of the specific names of the type species of genera belonging to the Classes Cyclostomata, Pisces, Amphibia and Reptilia, the names of which had been placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was allotted the Registered Number Z.N.(S.) 1014.

II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

3. Issue of Voting Paper V.P.(O.M.)(56)5 : On 25th April 1956 a Voting Paper (V.P.(O.M.(56)5) was issued in which each Member of the Commission was asked (1) to state whether he agreed " that, in conformity with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1948, the names of species in the Classes Cyclostomata, Pisces, Amphibia and Reptilia referred to in Sections (1) and (2) of paragraph 9 of the paper bearing the Registered Number Z.N.(S.) 1014 by the Secretary submitted simultaneously with the present Voting Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be placed on the *Official List of Specific Names in Zoology* as there recommended and that the other action recommended in the said paragraph be similarly approved", and (2), if he did not so agree as regards any given item, to indicate that item.

4. Withdrawal from the scope of Voting Paper V.P.(O.M.)(56)5 of the proposal that the specific name "calamarius" Linnaeus, 1758, as published in the combination "Coluber calamarius", be placed on the "Official List of Generic Names in Zoology" to permit of the further study of the interpretation of the nominal species so named : On 2nd May 1956 Mr. Hemming, as Secretary, executed the following Minute withdrawing from the scope of Voting Paper V.P.(O.M.)(56)5 the proposal submitted therewith for the addition to the *Official List of Specific Names in Zoology* of the specific name *calamarius* Linnaeus, 1758, as published in the combination *Coluber calamarius*, the specific name of the type species of the genus *Calamaria* Boie, 1826 :—

Withdrawal from the scope of Voting Paper V.P.(O.M.)(56)5 of the proposal that the specific name "calamarius" Linnaeus, 1758, as published in the combination "Coluber calamarius" (Class Reptilia) be placed on the "Official List of Specific Names in Zoology"

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

With their completed copies of Voting Paper V.P.(O.M.)(56)4 received in the Office of the Commission today Dr. H. Boschma (Director, Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands) and Dr. L. B. Holthuis of the same Museum reported that they had been informed by Dr. L. D. Brongersma of the above Museum that there were certain hitherto unsuspected difficulties in the matter of the interpretation of the nominal genus *Calamaria* Boie, 1826, a genus, the name of which had been placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 92* and on which certain supplementary proposals had been submitted in the paper bearing the Number Z.N.(S.) 1015 issued to the Members of the Commission concurrently with the Voting Paper referred to above. It appeared from the communications so received that the current interpretation of the nominal species *Coluber calamarius* Linnaeus, 1758, the type species of the foregoing genus and/or of the objectively identical nominal species *Calamaria linnaei* Boie, 1826, was open to question and that there was at least a possibility that the species to which Linnaeus had given that name was a species at present placed by specialists in a genus far removed from *Calamaria* Boie.

2. On the receipt of the communications referred to above I at once executed a Minute² numbered Z.N.(S.) 1015 in which, as Secretary, I withdrew certain proposals relating to the generic name *Calamaria* Boie from the scope of Voting Paper V.P.(O.M.)(56)4, in order to permit of the further study of the issues alluded to in the foregoing communications and directed that a new File bearing the Registered Number Z.N.(S.) 1114 be opened for the prosecution of the study of the issues so reserved for further examination. The same problem arises in connection with the proposals submitted to the Commission with Voting Paper V.P.(O.M.)(56)5, which are closely linked with those submitted with Voting Paper V.P.(O.M.)(56)4, being concerned with the addition to the *Official List of Specific Names in Zoology* of the specific names of the type species of genera belonging to the Classes Cyclostomata, Pisces, Amphibia and Reptilia, the names of which were placed on the *Official List of Generic Names in Zoology* during the period up to the end of 1936, the group of names in respect of which certain preliminary proposals of a miscellaneous character had been submitted with Voting Paper V.P.(O.M.)(56)4. In these circumstances, as Secretary, I hereby withdraw from the scope of Voting Paper V.P.(O.M.)(56)5 the proposals in regard to the specific name *calamarius* Linnaeus, 1758, as published in the combination *Coluber calamarius*, submitted therewith and direct that whatever may be found to be the appropriate recommendation on this matter be submitted at the close of the investigations on File Z.N.(S.) 1114 opened for the corresponding investigations arising out of the withdrawal from the scope of Voting Paper V.P.(O.M.)(56)4 of the proposals submitted therewith in connection with the generic name *Calamaria* Boie.

5. The Prescribed Voting Period for V.P.(O.M.)(56)5 : As Voting Paper V.P.(O.M.)(56)5 was issued under the One-Month Rule, the Prescribed Voting Period therefore closed on 25th May 1956.

6. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)5 : At the close of the Prescribed Voting Period for Voting Paper V.P.(O.M.)(56)5, the state of the voting on the proposals submitted therewith, other than on that part of those proposals which had been withdrawn from the scope of that Voting Paper by the Minute executed by the Secretary on 2nd May 1956 (the

² The text of the Minute here referred to has been reproduced in paragraph 5 of *Direction 56* (published in the immediately preceding Part of the present Section of Volume I of the "Opinions and Declarations" Series).

text of which has been reproduced in paragraph 4 of the present *Direction*) was as follows :—

- (a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received :*

Holthuis ; Boschma ; Stoll ; Vokes ; Hering ; Miller ;
Prantl ; Bodenheimer ; Cabrera ; Esaki ; Mayr ; do
Amaral ; Lemche ; Hankó ; Dymond ; Mertens ;
Key ; Jaczewski ; Bonnet ; Hemming ; Sylvester-
Bradley ; Riley ; Kühnelt ; Tortonese ;

- (b) *Negative Votes :*

None ;

- (c) *On Leave of Absence, one (1) :*

Bradley (J.C.) ;

- (d) *Voting Papers not returned :*

None.

7. Declaration of Result of Vote : On 7th June 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.) (56)5, signed a Certificate that the Votes cast on that Voting Paper, other than on the proposals in regard to the name *calamarius* Linnaeus, 1758, as published in the combination *Coluber calamarius*, submitted therewith, which had been withdrawn from its scope by the Minute executed by the Secretary on 2nd

May 1956 (the text of which has been reproduced in paragraph 4 of the present *Direction*) were as set out in paragraph 6 above and that the proposals submitted with that Voting Paper, other than the proposals so withdrawn, had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

8. Preparation of the Ruling given in the present “ Direction ” :

On 1st October 1956, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its vote on Voting Paper V.P.(O.M.)(56)5, subject to the exclusion therefrom of the proposals in regard to the specific name *calamarius* Linnaeus specified in the Minute executed by the Secretary on 2nd May 1956 referred to in paragraph 7 above.

9. Original References : The original references for the specific names placed on the *Official List of Specific Names in Zoology* by the Ruling given in the present *Direction* have already been noted in connection with the *Official List of Generic Names in Zoology*, the nominal species bearing the names concerned being either (i) the type species of genera, the names of which have been inscribed on that *List* or (ii), in one case, a nominal species which is currently subjectively identified as representing the same taxon as that represented by a nominal species which is the type species of such a genus.

10. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

11. The present *Direction* shall be known as *Direction* Fifty-Seven (57) of the International Commission on Zoological Nomenclature.

DONE in London, this First day of October, Nineteen Hundred and Fifty-Six.

*Secretary to the International Commission
on Zoological Nomenclature*

FRANCIS HEMMING

Note to Subscribers

The next following "Direction" ("Direction" 58), which is being published simultaneously with the present "Direction", is being issued as Part 21 of Volume 13 of the present Series.